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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/718,406	11/20/2003	Josef Bille	11126.5	9736
NEIL K. NYD	7590 03/09/200 EGGER	EXAMINER		
	& ASSOCIATES	THOMAS, BRANDI N		
348 Olive Street San Diego, CA 92103			ART UNIT	PAPER NUMBER
2			2873	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		03/09/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
	10/718,406	BILLE, JOSEF				
Office Action Summary	Examiner	Art Unit				
	Brandi N. Thomas	2873				
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute that the period for reply will, by statute that the period for reply will, by statute that the period for reply will be set or extended period for reply will, by statute that the period for reply will be set or extended period for reply w	NATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDON	DN. timely filed om the mailing date of this communication. NED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 20 N	lovember 2003.					
	s action is non-final.					
3) Since this application is in condition for allowa	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-32</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-32</u> is/are rejected.						
	· · · · · · · · · · · · · · · · · ·					
8) Claim(s) are subject to restriction and/o	or election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>20 November 2003</u> is/are: a) accepted or b)⊠ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
	 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Certified copies of the priority documents have been received in Application No 					
·	3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application						
Paper No(s)/Mail Date 6) Other: <u>Detailed Action.</u>						

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DETAILED ACTION

Drawings

The drawings are objected to because the drawings contain hand written text. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

3. Claims 1-4, 6-10, 12-21, 23-25, and 27-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pawlowski et al. (2004/0002694 A1).

Regarding claims 1, 12, and 23, Pawlowski et al. discloses, in figures 1 and 2, a system for diagnostically evaluating the health of tissue within the fundus (2) of an eye (1), which comprises: a laser source (14) for generating a laser beam, (5) said laser beam (5) having a plurality of laser pulses (sections 0039 and 0040), wherein each laser pulse has a first wavelength (section 0040 and 0045); an optical assembly (10) for focusing each laser pulse to a focal point in the fundus (2) (section 0046), with the focal point being characterized by a spot size having a diameter (section 0054); a means (24) for detecting a return light having a second wavelength (section 0048), wherein the return light is generated when the laser beam is incident on anisotropic tissue in the fundus (2) (section 0048); and a means for evaluating the return light to determine the health of the fundus tissue (section 0050) but does not specifically disclose wherein the laser has a pulse duration less than approximately two hundred femtoseconds and a spot size having a diameter of approximately two microns. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the invention to include a laser has a pulse duration less than approximately two hundred femtoseconds and a spot size having a diameter of approximately two microns, since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art (In re Boesch, 617 F.2d 272, 205 USPQ 215 (CCPA 1980)). Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the invention to include a laser has a pulse duration less than approximately two hundred femtoseconds and a spot size having a diameter of approximately two microns for the purpose of an rapid laser beam

and large enough spot size to encompass the diseased tissue. Regarding claim12, Pawlowski et al. further discloses dilating the iris of the human eye to create an aperture having an extended diameter (section 0054).

Regarding claims 2, 15, and 24, Pawlowski et al. discloses, in figures 1 and 2, a system for diagnostically evaluating the health of tissue within the fundus (2) of an eye (1), wherein said first wavelength is in the range between 700 nm to 1000 nm (section 0039), and further wherein said second wavelength is in the range between 350 nm to 500 nm (section 0046).

Regarding claims 3, 16, and 25, Pawlowski et al. discloses, in figures 1 and 2, a system for diagnostically evaluating the health of tissue within the fundus (2) of an eye (1) but does not specifically disclose wherein said first wavelength is 880 nm. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the invention to include a first wavelength is 880 nm, since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art (In re Boesch, 617 F.2d 272, 205 USPQ 215 (CCPA 1980)). Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the invention to include a first wavelength is 880 nm for the purpose completing an accurate treatment of infected tissue.

Regarding claims 4, 14, and 29, Pawlowski et al. discloses, in figures 1 and 2, a system for diagnostically evaluating the health of tissue within the fundus (2) of an eye (1) but does not specifically disclose wherein a pulse of said laser beam has an energy level of 1nJ. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the invention to include wherein a pulse of said laser beam has an energy level of 1nJ, since it has been held that discovering an optimum value of a result effective variable involves

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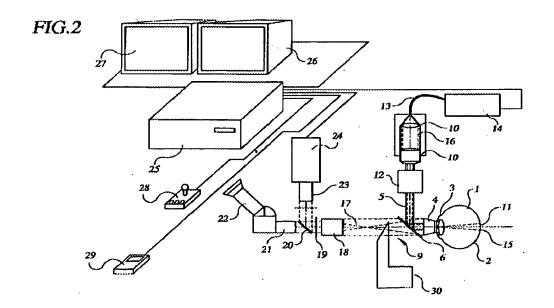
energy level of 1nJ for the purpose not damaging the eye tissue.

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only routine skill in the art (In re Boesch, 617 F.2d 272, 205 USPQ 215 (CCPA 1980)).

Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the invention to include wherein a pulse of said laser beam has an

Regarding claims 6, 17, 18, and 27, Pawlowski et al. discloses, in figures 1 and 2, a system for diagnostically evaluating the health of tissue within the fundus (2) of an eye (1), wherein said optical assembly further comprises: an active mirror (36 and 37) (section 0054); a scanning unit (12) for periodically moving said laser beam from one focal point to an adjacent focal point in the fundus (2), to focus said laser beam on a plurality of focal points within said fundus (sections 0054 and 0062); two focusing lenses (3 and 4) (section 0045); a wavefront sensor for generating data indicative of an alignment of the eye (1) (section 0054); and a computer (27) for receiving the data from said wavefront sensor for use in controlling said active mirror (36 and 37) to direct said laser beam to the focal point (section 0050).



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Regarding claims 7, 19, and 28, Pawlowski et al. discloses, in figures 1 and 2, a system for diagnostically evaluating the health of tissue within the fundus (2) of an eye (1) but does not specifically disclose wherein said laser beam irradiates a focal point with about five laser pulses. However, Pawlowski et al. does disclose the use of short and long pulses (sections 0039 and 0040). Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to disclose wherein laser beam irradiates a focal point with about five laser pulses for the purpose of purpose not damaging the eye tissue.

Regarding claim 8, Pawlowski et al. discloses, in figures 1 and 2, a system for diagnostically evaluating the health of tissue within the fundus (2) of an eye (1), wherein said detecting means comprises an imaging unit (24) in electronic communication with a computer (27) (section 0050).

Regarding claims 9, 20, and 30, Pawlowski et al. discloses, in figures 1 and 2, a system for diagnostically evaluating the health of tissue within the fundus (2) of an eye (1), wherein said evaluating means uses a pattern of the return light to evaluate the health of the fundus tissue (sections 0050 and 0051).

Regarding claims 10, 21, and 31, Pawlowski et al. discloses, in figures 1 and 2, a system for diagnostically evaluating the health of tissue within the fundus (2) of an eye (1), wherein said evaluating means compares an intensity level of said return light to a predetermined threshold value of light intensity to evaluate the health of the fundus tissue (sections 0045 and 0053).

Regarding claim 13, Pawlowski et al. discloses, in figures 1 and 2, a system for diagnostically evaluating the health of tissue within the fundus (2) of an eye (1), wherein said extended diameter is approximately six millimeters (section 0045).

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4. Claims 5-, 11, 22, 26, and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pawlowski et al. (2004/0002694 A1) as applied to claims 1 and 23 above, and further in view of Dubnack (6347244).

Regarding claims 5 and 26, Pawlowski et al. discloses, in figures 1 and 2, a system for diagnostically evaluating the health of tissue within the fundus (2) of an eye (1) but does not specifically disclose wherein said optical assembly includes adaptive optics. Dubnack discloses a system for diagnostically evaluating the health of tissue within the fundus (2) of an eye (1), wherein said optical assembly includes adaptive optics (col. 4, lines 31-34). Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to combine the device of Pawlowski et al. with the adaptive optics of Dubnack for the purpose of adapting the shape and the size of the optics depending on the size of the infected area (col. 4, lines 31-34).

Regarding claims 11, 22, and 32, Pawlowski et al. discloses, in figures 1 and 2, a system for diagnostically evaluating the health of tissue within the fundus (2) of an eye (1) but does not specifically disclose wherein the return light includes a plurality of responses, and further wherein said evaluating means counts the number of return light responses to evaluate the health of the fundus tissue. Dubnack discloses wherein the return light includes a plurality of responses, and further wherein said evaluating means counts the number of return light responses to evaluate the health of the fundus tissue (col. 4, lines 19-29). Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to combine the

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device of Pawlowski et al. with the light response of Dubnack for the purpose of evaluating and

treating the infected tissue (col. 9, lines 19-29).

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Brandi N. Thomas whose telephone number is 571-272-2341.

The examiner can normally be reached on Monday - Thursday from 6-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ricky Mack can be reached on 571-272-2333. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

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Brandi N Thomas

Examiner

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PRIMARY PATENT EXAMINER

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